

TABLE 9.2-1

Storage Tank and Sumps Description

Tank No.	Service/Purpose	Tank Type	Working Capacity US Gal	Diameter ft	Height ft	Design Standard	Secondary Containment
43-1213-1	<u>Anhydrous Ammonia Storage Tank</u> Store liquefied ammonia for use in SCR air pollution control system	Horizontal, cylindrical pressure vessel	11,650	9.0	25' long	ASME BPVC, Section VIII, Div I (365 psig)	Concrete Wall
43-1901-01	<u>BFW & Condensate Storage Tank</u> Storage for BFW and condensate returned from Refinery, prior to polishing treatment in demineralizer system	Vertical, cylindrical atmospheric above-ground tank (open-vented)	211,680	32.0	40.0	API 650	None
43-1901-01	<u>Demineralized Water Storage Tank</u> Provide supply of BFW makeup in the event that water delivery or treatment is temporarily interrupted	Vertical, cylindrical atmospheric above-ground tank (open-vented)	2,349,900	107.0	40.0	API 650	
43-1903-01	<u>Neutralization Tank</u> Collect used demineralization regeneration chemicals, filter backwash, and other plant non-oily wastewaters to adjust pH as necessary to Refinery	Vertical, cylindrical atmospheric above-ground tank - (open vented)	115,000	34.0	40.0	API 650	None
43-1906-01	<u>Closed Cooling Water System Head Tank</u> Provide volume for coolant thermal expansion, fill and drain point	Vertical, cylindrical pressure vessel	450	3.5	6.0	API 650	None

Source: Duke/Fluor Daniel, 2001

Tank No.	Service/Purpose	Tank Type	Working Capacity US Gal	Diameter ft	Height ft	Design Standard	Secondary Containment
43-1910-01	<u>Oxygen Scavenger Tank</u> Storage for BFW treating chemical	Vertical, cylindrical atmospheric	1,000	5'-2"	7'-4"	FRP	Curbed Area
43-1911-01	<u>Neutralizing Amine Tank</u> Storage for BFW treating chemical	Vertical, cylindrical, atmospheric	1,000	5'-2"	7'-4"	FRP	Curbed Area
43-1912-01	<u>Phosphate Tank</u> Storage for BFW treating chemical	Vertical, cylindrical, atmospheric	500	4'-0"	6'-3"	FRP	Curbed Area
43-1914-01	<u>Acid Storage Tank</u> Storage for Demineralizer anion bed regeneration	Horizontal, cylindrical, atmospheric	8,000	9'-0"	12'-6" S/S	ASME Section VIII Div I but not stamped	Concrete Wall
43-1915-01	<u>Caustic Storage Tank</u> Storage for Demineralizer cation bed regeneration	Horizontal, cylindrical, atmospheric	8,000	9'-0"	12'-6" S/S	ASME Section VIII Div I but not stamped	Concrete Wall
	<u>Blowdown Sump</u> Gravity drain collection point for	Below ground, concrete sump	17,240	12'Lx12'W	16' deep		
	HRSG boiler blowdown drain, pumped from sump to Neutralization Tank						
	<u>Oily Water Sump (GTG & STG Area)</u> Collection point for potentially oily runoff from washdown and precipitation, pumped to Refinery treatment system	Below ground, concrete sump	17,240	12'Lx12'W	16' deep		
	<u>CGT Wash Water Sump</u> Temporary storage of used wash water from periodic offline CGT cleaning.	Below ground, concrete sump	17,240	12'Lx12'W	16' deep		

Source: Duke/Fluor Daniel, 2001